INDIANA DEPARTMENT OF TRANSPORTATION
MATERIALS AND TESTS DIVISION

REDUCING HMA SAMPLES TO TESTING SIZE
ITM No. 587-01T

1.0 SCOPE.

1.1 This test method covers the procedures for reducing HMA samples to the appropriate size for testing.

1.2 The values stated in either acceptable English or SI metric units are to be regarded separately as standard, as appropriate for a specification with which this ITM is used. Within the text, SI metric units are shown in parenthesis. The values in each system may not be exact equivalents; therefore each system shall be used independent of the other, without combining values in any way.

1.3 This procedure may involve hazardous materials, operations and equipment. This ITM does not purport to address all of the safety problems associated with the ITM's use. The ITM user's responsibility is to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2.0 SIGNIFICANCE AND USE.

This ITM is used to reduce HMA samples for testing purposes. Minimum size samples and sample sizes that are within a weight (mass) range are required, depending on the type of test conducted.

3.0 APPARATUS.

3.1 Splitting Board
3.2 Trowel

4.0 PROCEDURE - MINIMUM WEIGHT (MASS)

4.1 Place the sample on a clean splitting board.

4.2 Thoroughly mix the sample with a trowel, and quarter the sample into four approximately equal portions.

4.3 Recombine two diagonally opposite portions.

4.4 Weigh the sample. If the sample does not meet the minimum weight (mass) required for the appropriate test method, set aside the sample and repeat 4.2 and 4.3 for the remaining two portions.

4.5 Add the additional diagonally opposite portions to the original sample. Repeat this procedure until the minimum weight (mass) required is obtained.

4.6 If the sample obtained in 4.3 is excessively large, the sample may be discarded. Repeat 4.2 to 4.5 for the remaining two portions until the required weight (mass) is obtained.

5.0 PROCEDURE - WEIGHT (MASS) RANGE.

5.1 Place the sample on a clean splitting board

5.2 Thoroughly mix the sample with a trowel, and quarter the sample into four approximately equal portions.

5.3 Recombine two diagonally opposite portions.

5.4 Weigh the sample. If the sample does not meet the minimum weight (mass) required for the appropriate test method, set aside the sample and repeat 5.2 and 5.3 for the remaining two portions.

5.5 Weigh the additional diagonally opposite portions. If the weight (mass) of the additional portion plus the original sample is less than the minimum required weight (mass), repeat 5.2 and 5.3 and add the portions to the sample. Repeat this procedure until the weight (mass) is within the weight (mass) range. If the weight (mass) of the additional portion plus the original sample is greater than the maximum required weight (mass), discard the additional mixture and repeat 5.2 to 5.5 until the weight (mass) is within the weight (mass) range.

5.6 If the sample obtained in 5.3 exceeds the maximum required weight (mass), discard the sample and repeat 5.2 to 5.5 until the weight (mass) is within the weight (mass) range.